

**DATA RECOVERY SYSTEM AND APPLICATIONS THEREOF
IN RADIO RECEIVERS**

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ABSTRACT OF THE DISCLOSURE

A method and apparatus for data recovery includes processing that begins by receiving an encoded signal at a transmit symbol rate. Such an encoded signal includes data that is represented by positive and negative pulses. The processing continues by determining at least one reference crossing of the encoded signal (e.g., detecting a 0 crossing). The processing then continues by determining a sampling phase of a system symbol rate based on the reference crossing. The processing then continues by sampling the encoded signal at the determined sampling phase with respect to the system symbol rate to recapture the data.